

Three-Dimensional Modeling, IET-265 Name: \_\_\_\_\_

Winter 2013, Week 7, ICE

*Assembly Model* Part and Day and date: \_\_\_\_\_

Assembly Drawings, Title Block Items, *Wagon Handle Mount*

60 points total

*Assembly Model* Part Drawing (15pts)

- Front, Top, Right, Views (3pts)
- Section View (1pt) Auxiliary View (1pt), Detail View (1pt)
- Appropriate annotations for the sections, details and auxiliary views (1pt)
- Views laid out with equal spacing between left right and top and bottom (1pt)
- Appropriate dimensions (3pts) neat and orderly (2pts) Dimension layer (1pt)
- View labels for each view (1pt) on Sheet Notes layer (1pt)
- Errors and Extras

*Assembly Model* Assembly Drawing (15pts)

- All Parts (3pts)
- Exploded view, shaded with edges (2pts)
- Explode line sketches (1pt)
- Explode neat, orderly, easy to read (1pt)
- Bill of materials with Item Number, Description, Material, Part Number and Qty columns filled in (3pts)
- BOM neat and orderly (1pt)
- Balloons (1pt) with circular split line for Item Number and Qty (2pts)
- Balloons neat and orderly (1pt)
- Errors and Extras

*Title Block Items* (10pts)

- All items apparent (1pt)
- Company name filled in and in border (1pt)
- File name fits (1pt)
- *Unless Otherwise Specified* section filled in properly (1pt)
- *Interpret Geometric Tolerancing* section filled in properly (1pt)
- Logo, effort, unique, (2pts) fills the box, company name, address, phone number, web address (2pts)
- *Proprietary* section filled in (1pt)

*Wagon Handle Mount* (20pts)

- Completeness with symmetry (2pts), notice the location of the Origin (1pt)
- Material AISI 1020 (1pt)
- Correct starting plane, top (1pt) orientation, make certain the front is the front (1pt)
- Fully defined sketches with dimensions (2pts)
- Various features, Hole Wizard (2pts), Shell selecting 3 faces (2pts)
- Rename your features (not Hole Wizards or fillets) (2pts)
- Find the Mass \_\_\_\_\_, precision at 3 units after the decimal (3pts)
- Find the Center of Mass at 3 units after the decimal, x\_\_\_\_\_, y\_\_\_\_\_, z\_\_\_\_\_ (3pts)
- Extras and errors